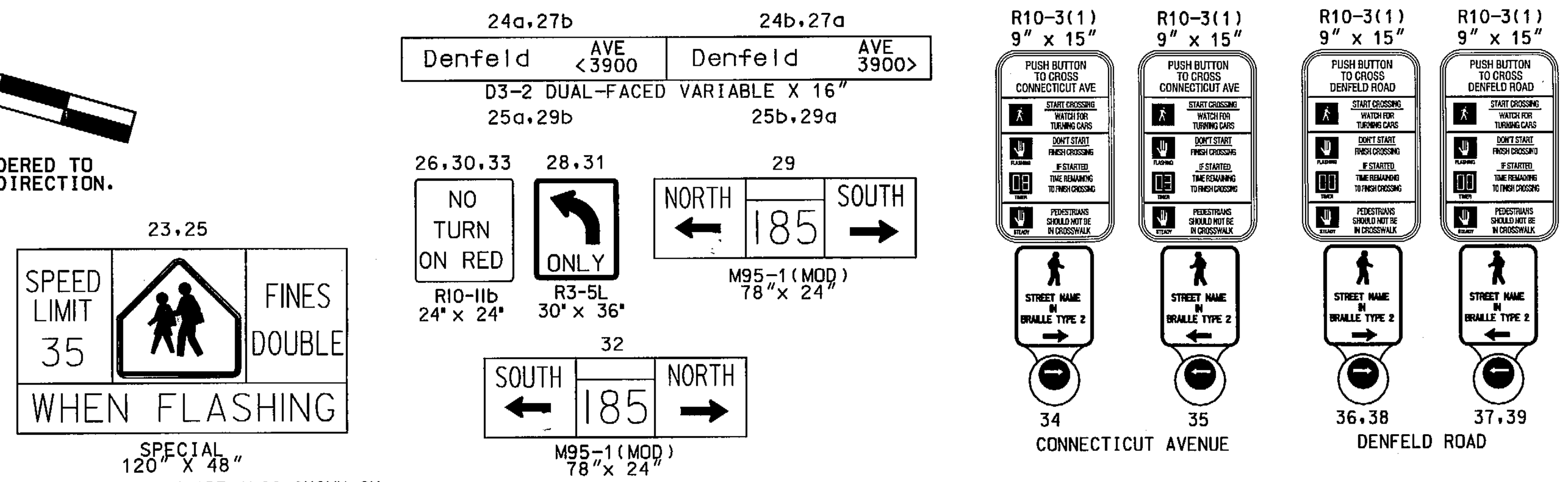
DRILL HOLES

BORDER REV: DATE: June 1, 2004

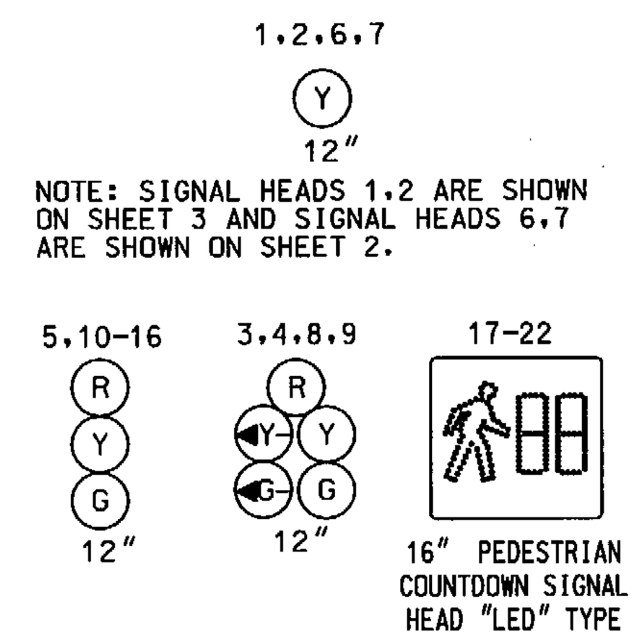
NOTE: MD 185 IS CONSIDERED TO RUN IN A NORTH-SOUTH DIRECTION.

PROPOSED SIGNS



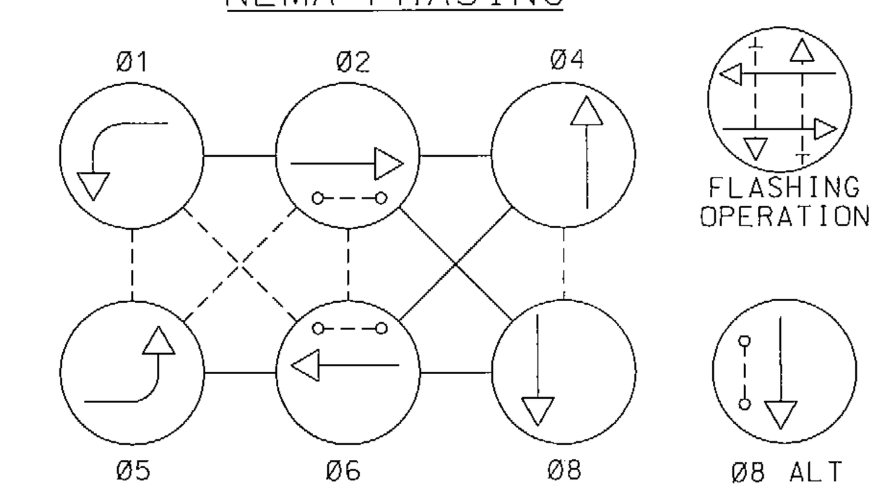
NOTE: SIGNS 23 & 25 ARE ALSO SHOWN ON SHEETS 2 OF 6 AND 3 OF 6 RESPECTFULLY

PROPOSED LED SIGNALS

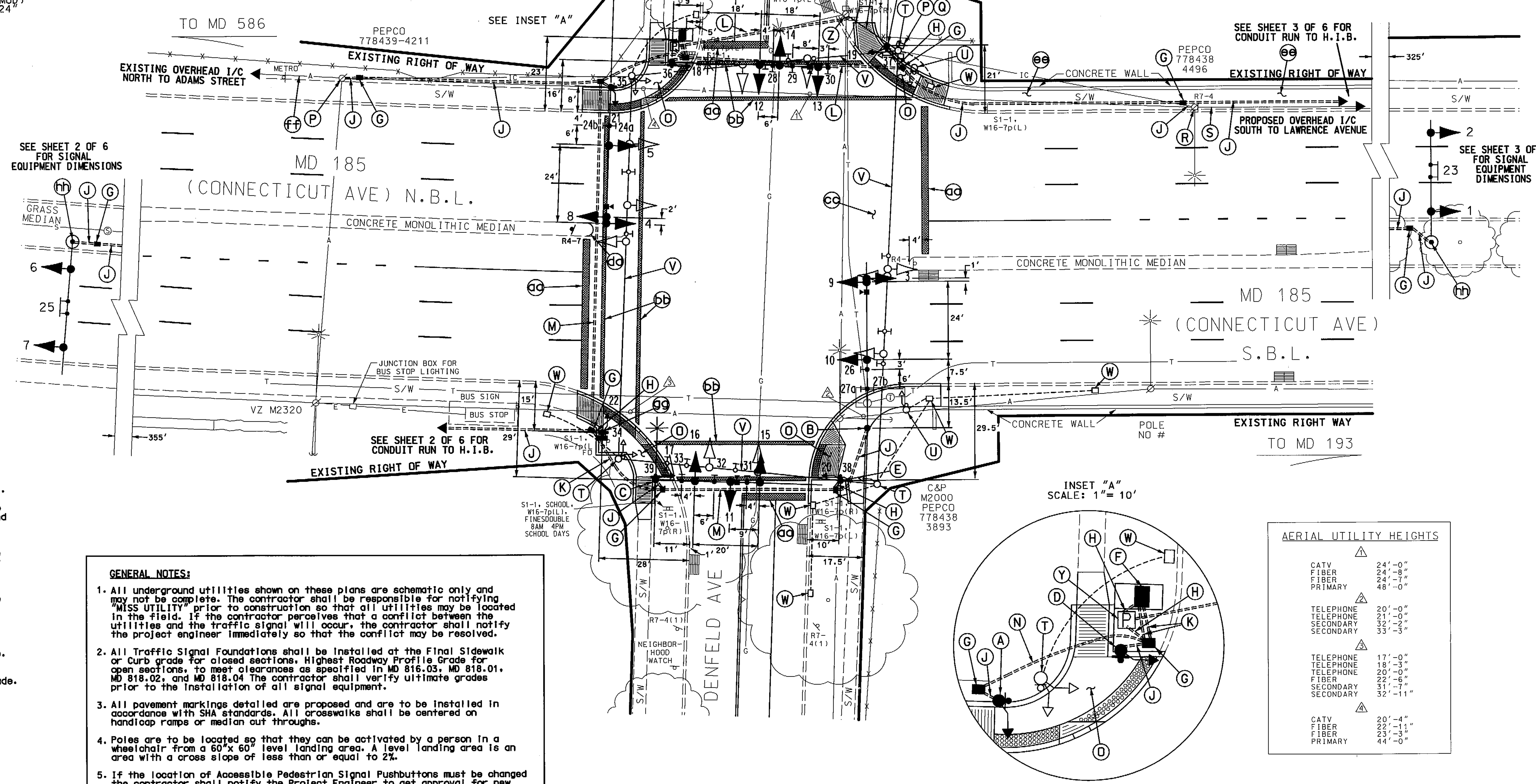


NOTE: SIGNAL HEADS 1,2 ARE SHOWN ON SHEET 3 AND SIGNAL HEADS 6,7 ARE SHOWN ON SHEET 2.

NEMA PHASING



PHASING NOTES:
1.) PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY
2.) PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY



CONSTRUCTION DETAILS

A. Install 16.5' steel pole with a special 15' "T" dimension, 60' mast arm. LED traffic signal heads, sign, video detection camera, Countdown pedestrian signal head with audible pedestrian pushbutton and pedestrian education sign as shown. (Note: 1-3" 90°polyvinyl chloride (Schedule 80) bend.)

B. Install 16.5' steel pole with a special 15' "T" dimension, 60' mast arm. LED traffic signal heads, signs and video detection camera as shown. (Note: 1-3" 90°polyvinyl chloride (Schedule 80) bend.)

C. Install 27' steel pole with a 50' mast arm, LED traffic signal heads, signs, 15' lighting arm with a 250W-HPS luminaire, video detection camera, Countdown pedestrian signal head with audible pedestrian pushbutton and pedestrian education sign as shown. (Note: 1-3" 90°polyvinyl chloride (Schedule 80) bend.)

D. Install 27' steel pole with a 50' mast arm, LED traffic signal heads, signs, 10' lighting arm with a 250W-HPS luminaire, video detection camera, Countdown pedestrian signal head with audible pedestrian pushbutton and pedestrian education sign as shown. (Note: 1-3" 90°polyvinyl chloride (Schedule 80) bend.)

E. Install 10' pedestal pole (with breakaway coupling system, modified foundation STD No. 801.01-01), Countdown pedestrian signal head, and audible pushbutton with pedestrian education sign as shown. (Note: 1-2", 90° polyvinyl chloride (Schedule 80) bend.)

F. Install NEMA Type "S" base-mounted cabinet and controller with video interface, 2-wire control unit, UPS battery back up, uninteruptable power supply UPS Bypass Switch, L.A.U. and L.A.U. Panel and all necessary equipment as shown.

G. Install handhole.

H. Install 2" polyvinyl chloride electrical conduit (Schedule 80) (trenched).

J. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (trenched).

K. Install 4" polyvinyl chloride electrical conduit (Schedule 80) (trenched).

L. Install 4" polyvinyl chloride electrical conduit (Schedule 80) (slotted).

M. Install 4" polyvinyl chloride electrical conduit (Schedule 80) (bored).

N. Install 2-4" polyvinyl chloride electrical conduits (Schedule 80) (in same trench).

O. Install proposed sidewalk ramp. (Note: See ADA Sheet 2 of 6 "ADA Ramp Detail Plan").

P. Disconnect and pull back existing interconnect cable from existing cabinet north to PEPCO pole 778439-4211. Install 3" polyvinyl chloride electrical riser, 3" bend and 3" weatherhead. Route interconnect cable thru new riser and conduit into proposed base mounted cabinet.

Q. Disconnect and pull back existing interconnect from existing cabinet at Denfeld Ave overhead south to the cabinet at Lawrence Ave and discard. Install proposed 12-pair interconnect cable from Lawrence Ave overhead in same locations to the proposed cabinet at Denfeld Ave.

R. Install 3" polyvinyl chloride electrical riser, 3" weatherhead and 3" bend at base of wood pole.

S. Remove existing interconnect cable and install 12-pair interconnect cable (self supporting) in same location.

T. Remove existing strain pole, all attached equipment and foundation 12" below grade. Cap and abandon existing conduit.

U. Remove existing pedestal pole, all attached equipment and foundation 12" below grade. Cap and abandon existing conduit.

V. Remove existing span wire and all attached equipment.

W. Remove existing handhole. Cap and abandon existing conduit.

X. Remove existing overhead electrical service and service equipment on strain pole.

Y. Install Metered Service Pedestal.

Z. Install 4" PVC bend at pole base with 1 conductor No. 2 AWG/THHN and pull string for power service to base of utility pole for proposed underground electrical service by PEPCO. (NOTE: Bend is to be installed to the right of the existing unused Verizon bends at pole base.)

aa. Remove existing stopline and install 24" white, heat applied permanent preformed thermoplastic pavement marking (stopline).

bb. Remove existing crosswalk and install 12" white, heat applied permanent preformed thermoplastic pavement marking (crosswalk), with crosshatching.

cc. Remove existing crosswalk.

dd. Remove 10' of existing median, install new median nose and install macadam roadway patch.

ee. Remove existing sidewalk and replace after the installation of the proposed conduit.

ff. Existing overhead interconnect cable.

gg. Install 10' breakaway pedestal pole (with breakaway coupling system, modified foundation (STD. 801.01-01),"G" size cabinet, Countdown pedestrian signal head and audible pushbutton with pedestrian education sign as shown. (Note: 1-2", 90° polyvinyl chloride (Schedule-80) bend.

hh. Install 21' steel pole with a 60' mast arm (cut to 38') with LED Signal heads and sign. (Note: 1-3", 90° polyvinyl chloride (Schedule-80) bend.)

GENERAL NOTES:

1. All underground utilities shown on these plans are schematic only and may not be complete. The contractor shall be responsible for notifying "MISS UTILITY" prior to construction so that all utilities may be located in the field. If the contractor perceives that a conflict between the utilities and the traffic signal will occur, the contractor shall notify the project engineer immediately so that the conflict may be resolved.
2. All Traffic Signal Foundations shall be installed at the Final Sidewalk or Curb grade for closed sections, Highest Roadway Profile Grade for open sections, to meet clearances as specified in MD 816.03, MD 818.01, MD 818.02, and MD 818.04 The contractor shall verify ultimate grades prior to the installation of all signal equipment.
3. All pavement markings detailed are proposed and are to be installed in accordance with SHA standards. All crosswalks shall be centered on handicap ramps or median cut throughs.
4. Poles are to be located so that they can be activated by a person in a wheelchair from a 60"x 60" level landing area. A level landing area is an area with a cross slope of less than or equal to 2%.
5. If the location of Accessible Pedestrian Signal Pushbuttons must be changed the contractor shall notify the Project Engineer to get approval for new location to ensure proper requirements of the MUTCD are still met. All work must be halted until the Project Engineer has obtained an approved location or if necesary a design waiver is obtained.
6. The contractor shall remove all unused wiring.
7. All ground mounted signs (both existing and proposed) are detailed on sheets 2 and 3.
8. All work that requires the removal, disconnect and pulling back of existing overhead I/C cable shall be done as a "work with" scheduled with Montgomery County Traffic. The contractor must contact Mr. Kamal Hamud at (240)777-8761.

INSET "A"
SCALE: 1"= 10'

AERIAL UTILITY HEIGHTS

1	CATV	24'-0"
	FIBER	24'-8"
	FIBER	24'-7"
	PRIMARY	48'-0"
2	TELEPHONE	20'-0"
	TELEPHONE	21'-0"
	SECONDARY	32'-2"
	SECONDARY	33'-3"
3	TELEPHONE	17'-0"
	TELEPHONE	18'-3"
	TELEPHONE	20'-0"
	FIBER	22'-6"
	SECONDARY	31'-7"
	SECONDARY	32'-11"
4	CATV	20'-4"
	FIBER	22'-11"
	FIBER	23'-3"
	PRIMARY	44'-0"

TOD NO: XX655-16
SHA NO: MO972B5B
MD 185 @ Denfeld Avenue

GEOMETRIC LEGEND
PROPOSED ————
EXISTING — — — —

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	—A— —A—
ELECTRIC	—E— —E—
TELEPHONE	—T— —T—
GAS	—G— —G—
SEWER	—S— —S—
WATER	—W— —W—
CABLE TV	—TV— —TV—

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5898.dgn T-73

APPROVALS
TEAM LEADER
ASST. DIV. CHIEF
DIVISION CHIEF
OFFICE DIRECTOR
ORIGINAL ON FILE

REVISIONS
B RECONSTRUCT SIGNAL USING MAST ARMS. UPGRADE TO APS, CPS, UPS. SHA NO.: XX6555185 TIMS NO. K516 — 12-13-11
RRZ
A ADD NB EP LT & INSTALL CPS ON MAINLINE SHA NO.: AT5825185 — 5/18/05
RRZ

PLOTTED: $DATETIME$
FILE: $FILE$

SHA
STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 185 (CONNECTICUT AVE) AND DENFELD AVE

KENSINGTON, MARYLAND

TRAFFIC SIGNAL PLAN

SCALE 1"= 20' DATE ________ CONTRACT NO. ________

DESIGNED BY SHA — COUNTY MONTGOMERY
DRAWN BY SHA — LOGMILE 15018505.04
CHECKED BY SHA — TIMS NO. ________
F.A.P. NO. ________ — TOD NO. ________

TS NO. 4414B — DRAWING NO. 1 OF 6 — SHEET NO. OF

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